## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization International Bureau





## (43) International Publication Date 29 April 2004 (29.04.2004)

## **PCT**

# (10) International Publication Number WO 2004/036332 A2

(51) International Patent Classification7:

G06F

(21) International Application Number:

PCT/IB2002/005733

(22) International Filing Date:

30 December 2002 (30.12.2002)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: PCT/IB02/04295

17 October 2002 (17.10.2002)

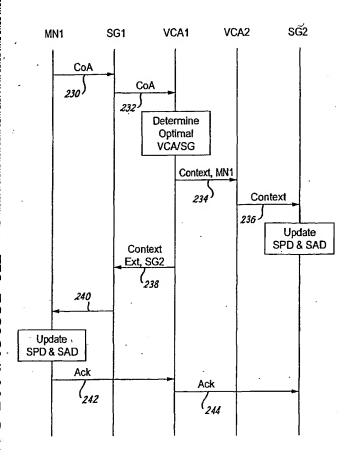
- (71) Applicant (for all designated States except US): NOKIA CORPORATION [FI/FI]; Keilalahdentie 4, FIN-02150 Espo (FI).
- (72) Inventor: and
- (75) Inventor/Applicant (for US only): WARIS, Heikki

[FI/JP]; Elite-inn Yushima #401, 1-28-3 Yushima, Bunkyo-ku, 113-0034 Tokyo (JP).

- (74) Agent: HIGGIN, Paul; Swindell & Pearson, 48 Friar Gate, Derby DE1 1GY (GB).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK,

[Continued on next page]

#### (54) Title: VIRTUAL PRIVATE NETWORK WITH MOBILE NODES



(57) Abstract: A virtual private network has an internal secured portion which connects to an external portion, the network via at least a first gateway and via a second gateway. There are a plurality of workstations including at least one mobile workstation in the external portion. The network automatically changes the point through which the mobile workstation communicates with the internal portion of the network from the first gateway to the second gateway, in response to movement of the mobile workstation. Context information is transferred to the second gateway. The context information includes an identifier of the mobile workstation and may also include material for defining secure communication means by which information is transferable securely between the mobile workstation in the external portion of the network and the internal portion of the network, via the second gateway.

# WO 2004/036332 A2



TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.